TASK 1:

pwd: displays the current directory.

\$ pwd

/Users/gift

\$

vi : Starts the vi editor for editing a file

vi Testfile.txt

touch: touch file sets the current time stamp for a file. Can be used to create an empty file.

Examples below:

· Create a blank file

```
$ touch test.txt

Is

$ Is -I test.txt

-rw-r--r-- 1 gift staff 0 Mar 18 12:27 test.txt
```

• Change access time

```
$ touch -c test.txt

Is -I test.txt

-rw-r--r-- 1 gift staff 0 Mar 18 12:32 test.txt
```

Create lots and lots of files

```
$ touch {A..Z}
$ touch {1..20}
$ touch {1..1000}.txt
```

mkdir: Create a new directory

```
$ mkdir gc_dir
$ ls -l
```

drwxr-xr-x 2 gift staff 64 Mar 18 12:46 gc_dir

```
rm: deletes a file or directory
     $ Is -I
     drwxr-xr-x 2 gift staff 64 Mar 18 12:46 gc_dir
     -rw-r--r- 1 gift staff 0 Mar 18 12:49 testfile.txt
     $ rm testfile.txt
     $ rm -r gc dir/
     $ ls -l
     $
Is: displays the contents of a directory
     $ ls -l
     drwxr-xr-x 2 gift staff 64 Mar 18 12:46 gc_dir
       -rw-r--r-- 1 gift staff 0 Mar 18 12:49 testfile.txt
echo: display a line of text/string on standard output or a file.
$ echo "display a line of text/string on standard output or a file."
display a line of text/string on standard output or a file.
cat: displays the content of a file on the standard output channel (usually the screen).
$ cat testfile.txt
This is a test file
re
fgtsss
ddd
$
who: display the users that are currently logged into your Unix computer system.
$ who
gift console Mar 17 21:57
gift ttys000 Mar 18 12:17
```

\$

cd : Changes the working directory

\$ pwd

/Users/gift

\$cd /Users/gift/work

\$pwd]

/Users/gift/work

date: displays the current system date and time

\$ date

Mon Mar 18 14:47:54 CAT 2019

cal: he calendar of a specific month or a whole year.

\$ cal

March 2019

Su Mo Tu We Th Fr Sa

1 2

3 4 5 6 7 8 9

10 11 12 13 14 15 16

17 18 19 20 21 22 23

24 25 26 27 28 29 30

31

\$ cal 05 2006

May 2006

Su Mo Tu We Th Fr Sa

1 2 3 4 5 6

7 8 9 10 11 12 13

14 15 16 17 18 19 20

21 22 23 24 25 26 27

28 29 30 31

mv: moves file/directory to another folder

\$ pwd

/Users/gift

ls

testfile.txt

Is work/

mv testfile.txt work/

Is work/

testfile.txt

cp: copies file/directory

ls

testfile.txt

cp testfile.txt testfile2.txt

ls

testfile.txt testfile2.txt

which: searches the path of executable in system paths set in \$PATH environment variable.

\$ which cat

/bin/cat

\$ which vi echo Is

/usr/bin/vi

/bin/echo

/bin/ls

TASK 2:

Word Mean

```
[cloudera@quickstart ~]$ hadoop fs -put testfile.txt /user/cloudera/wordcount/input/
[cloudera@quickstart ~]$ hadoop fs -ls /user/cloudera/wordcount/input

Found 1 items

-rw-r--r- 1 cloudera 30540 2019-03-18 08:16 /user/cloudera/wordcount/input/testfile.txt
[cloudera@qquickstart ~]$
```

```
0002 completed successfully
Shuffle Err
```

Word Mean

```
ples-2.6.0-cdh5.13.0.jar wordmean wordmean/input
                                                                                                                                 GroupInformation.java:1917)
                                                                                                                   mean/output
             ]§ hadoop jar /usr/lib/hadoop-mapreduce/hadoop-mapreduce-examples-2.6.0-cdh5.13.0.jar wordmean wordmean/input
                                                                                                                                                                                                     proxy/application 1552919899841 0005/
                                                                                                                                              in uber mode : false
                                                                                               100%
99841_0005 completed successfully
HDPS
ters
Launched map tasks=1
Launched reduce tasks=1
Data-local map tasks=1
Total time spent by all maps in occupied slots (ms)=41-
Total time spent by all reduces in occupied slots (ms)=3245
Total time spent by all map tasks (ms)=4179
Total time spent by all map tasks (ms)=4179
Total time spent by all reduce tasks (ms)=3245
Total vcore-milliseconds taken by all map tasks=4179
Total vcore-milliseconds taken by all reduce tasks=3245
Total vcore-milliseconds taken by all map tasks=4279296
Setal megabyte-milliseconds taken by all reduce tasks=33225
```

```
Input split bytes=138
Combine input records=2
Reduce input groups=2
Reduce input groups=2
Reduce input groups=2
Reduce input records=2
Reduce output records=2
Reduce output records=2
Spilled Records=4
Shuffled Maps =1
Failed Shuffles=0
Merged Map outputs=1
GC time elapsed (ms)=50
CPU time spent (ms)=1720
Physical memory (bytes) snapshot=469241856
Virtual memory (bytes) snapshot=3145502720
Total committed heap usage (bytes)=389545984
Shuffle Errors
BAD ID=0
CONNECTION=0
URROR=0
WRONG_LENGTH=0
WRONG_KEDUCE=0
File Input Format Counters
Bytes Written=24
The mean is: 10.802019315188762
[cloudera@quickstart ~]$ hadoop fs -ls /user/cloudera/wordmean/output/success
-rw-r--r-- 1 cloudera cloudera
0 2019-03-18 09:02 /user/cloudera/wordmean/output/part-r-00000
[cloudera@quickstart ~]$
```

WordStandardDeviation

WRONG_MAP=0
WRONG_REDUCE=0
File Input Format Counters
Bytes Read=30540
File Output Format Counters
Bytes Written=39
The standard deviation is: 27.04312972098201
[cloudera@quickstart ~18]